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5       amended claims 1, 2, 3, 11 and 12; claim 4 deleted;  
      claims 5-14 as originally filed, renumbered 4-13]

1.     The use of essentially insoluble micronized plant  
      fibers in the form of microparticles, at least 90%  
10     by weight of which are less than 700  $\mu\text{m}$  in size,  
      as an ingredient in the preparation of a  
      nutritional composition for reducing mycotoxin  
      bioavailability in humans or animals when a food  
      liable to be contaminated with said mycotoxins is  
15     ingested.
2.     The use as claimed in claim 1, characterized in  
      that the micronized plant fibers are in the form  
      of microparticles, at least 90% by weight of which  
20     are less than or equal to 400  $\mu\text{m}$  in size.
3.     The use as claimed in claim 2, characterized in  
      that the micronized plant fibers are in the form  
      of microparticles, at least 90% by weight of which  
25     are between 2  $\mu\text{m}$  and 200  $\mu\text{m}$ , inclusive, in size.
4.     The use as claimed in any one of the preceding  
      claims, characterized in that said nutritional  
      composition is for reducing the bioavailability of  
30     hydrophobic mycotoxins.
5.     The use as claimed in any one of the preceding  
      claims, characterized in that the plant fibers are  
      chosen from fibers derived:  
35     - from nutritional plants chosen from cereals,  
      leguminous plants, edible plants and fruits,

- from plants used by the paper industry, chosen from trees, sugar cane, bamboo and cereal straw.

- 5 6. The use as claimed in claim 5, characterized in that the plant fibers derived from cereals are chosen from wheat, barley, oat, maize, millet, rice, rye and sorghum fibers, and malted equivalents thereof.
- 10 7. The use as claimed in claim 5, characterized in that the fibers derived from nutritional plants, other than cereals, are chosen from fibers derived from apples, pears, grapeseeds, lupin and soya seeds, tomatoes, peas and coffee.
- 15 8. The use as claimed in any one of claims 1 to 6, characterized in that the nutritional composition is for reducing the bioavailability of ochratoxin A, aflatoxins, fumonisin and/or deoxynivalenol, and that the micronized plant fibers are chosen from wheat fibers and oat fibers, and mixtures thereof.
- 20 9. The use as claimed in claim 8, characterized in that the nutritional composition is for reducing ochratoxin A bioavailability, and that the plant fibers are micronized wheat fibers in the form of microparticles, 90% by weight of which are less than or equal to 100  $\mu$ m in size.
- 30 10. The use as claimed in any one of the preceding claims, characterized in that the nutritional composition is in the form of a food supplement, and that the amount of micronized plant fibers in said supplement represents up to 100% by weight of the total weight of said supplement.
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11. The use as claimed in claim 10, characterized in that the amount of micronized plant fibers in said supplement is between 80% and 100% by weight of the total weight of said supplement.
12. The use as claimed in any one of claims 1 to 8, characterized in that the nutritional composition is intended for human nutrition, and that it is in the form of a nutritional ingredient to be added during the manufacture of a food product at a rate of from 0.05% to 20% by weight relative to the total weight of said food product.
13. The use as claimed in any one of claims 1 to 8, characterized in that the nutritional composition is intended for animal nutrition, and that it is in the form of a starting material to be added to the daily food intake which is given to domestic or breeding animals, or to be incorporated, as an ingredient, during the manufacture of a complete food for domestic or breeding animals at a rate of from 0.05% to 10% by weight relative to the total weight of the food intake or of the complete food.